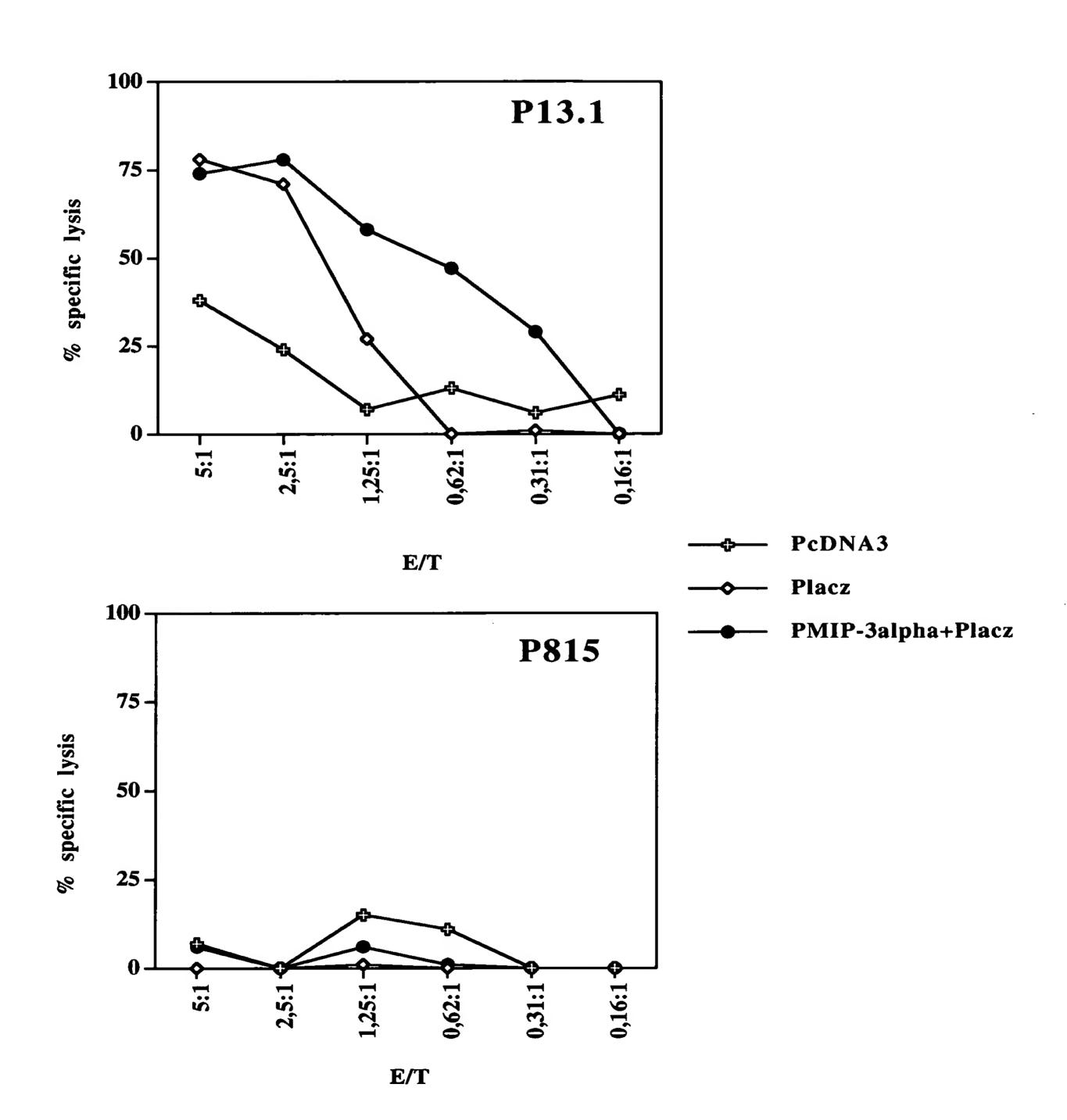


PCDNA3

—o— Placz

→ pMIP-3 alpha + Placz



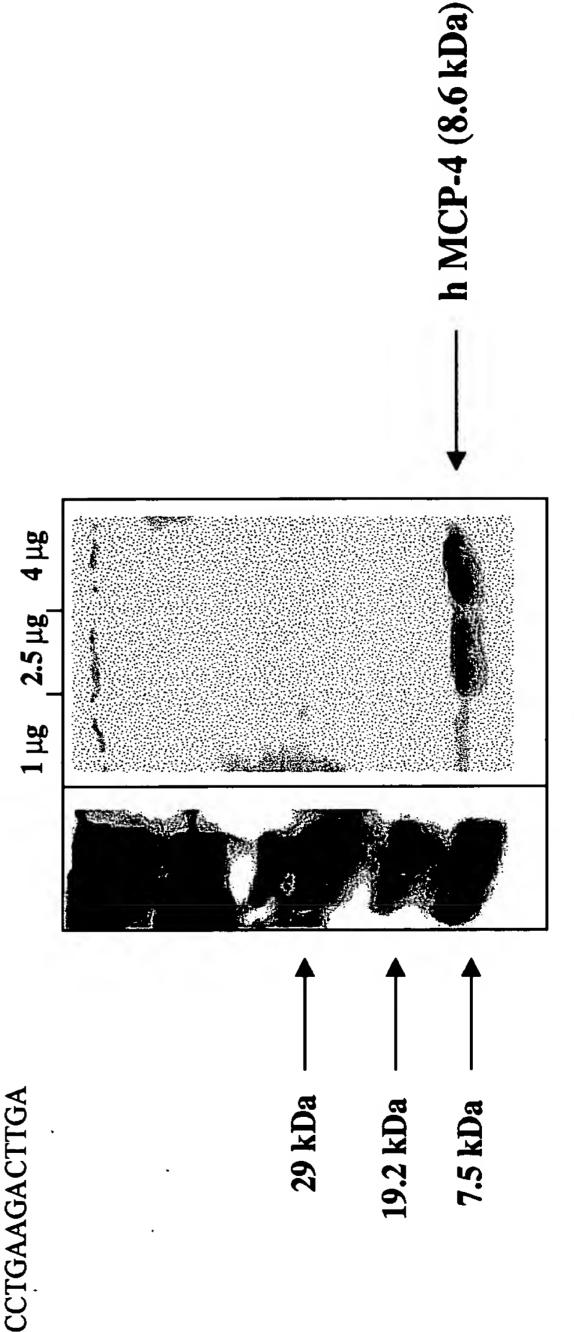
## hMCP-4 chemokine

- Nucleotide sequence (coding only)

ATGAAAGTCTCTGCAGTGCTTCTGTGCCT GCTGCTCATGACAGCAGCTTTCAACCCCC AGGGACTTGCTCAGCTTCACTCAA CGTCCCATCTACTTGCTGCTTCACATTTA GCAGTAAGAAGATCTCCTTGCAGAGGCT GAAGAGCTATGTGATCACCAGCAGG TGTCCCCAGAAGGCTGTCATCTTCAGAAC CAAACTGGGCAAGGAGGTCCACAGAACTTATA TGAAACACCTGGGCCGGAAAGCTCACAC

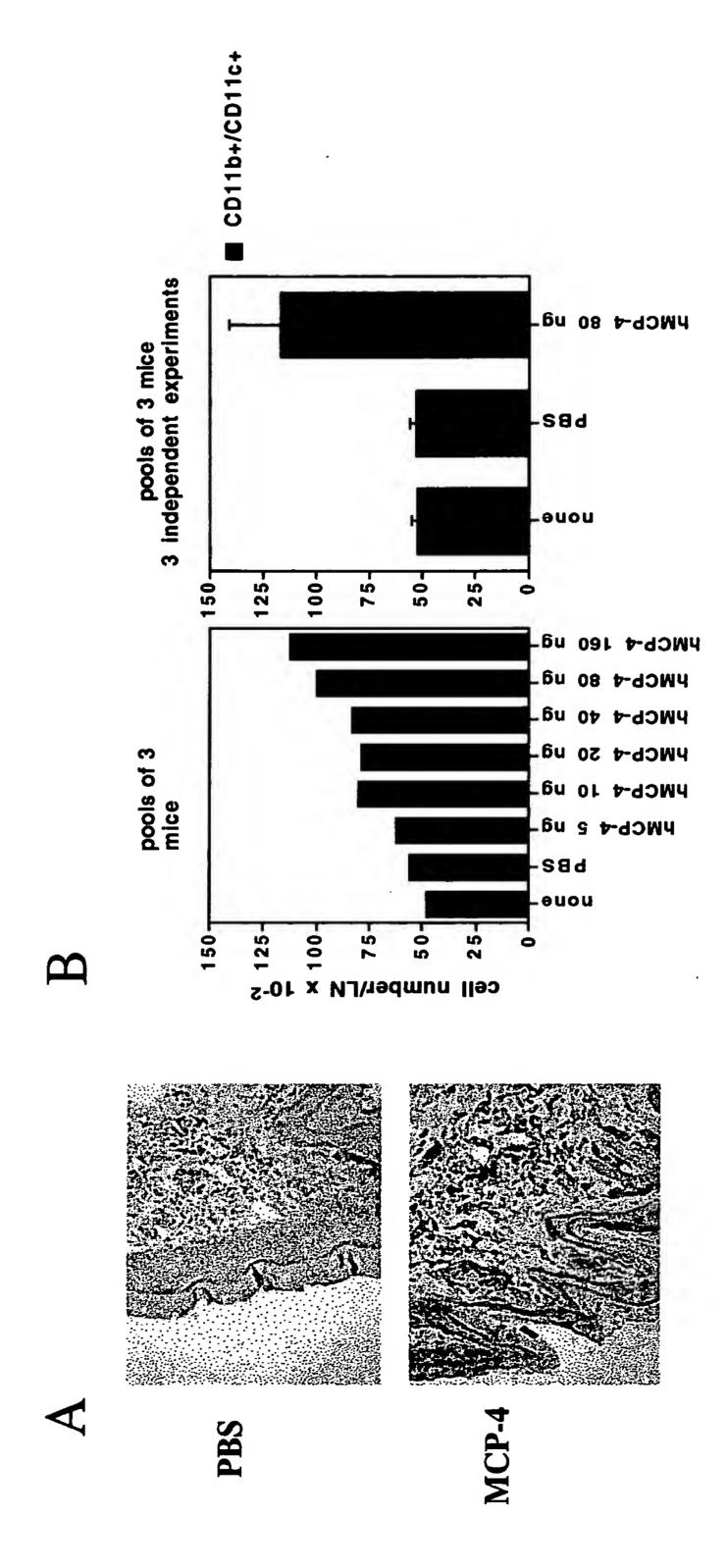
- Amino acid sequence (leader sequence not present in recombinant protein in italics)

MKVSAVLLCLLLMTAAFNPQGLAQPDALNV PSTCCFTFSSKKISLQRLKSYVITTSRCPQK AVIFRTKLGKEICADPKEK WVQNYMKHL GRKAHTLKT



SDS-PAGE (18%) and silver staining of human recombinant MCP-4

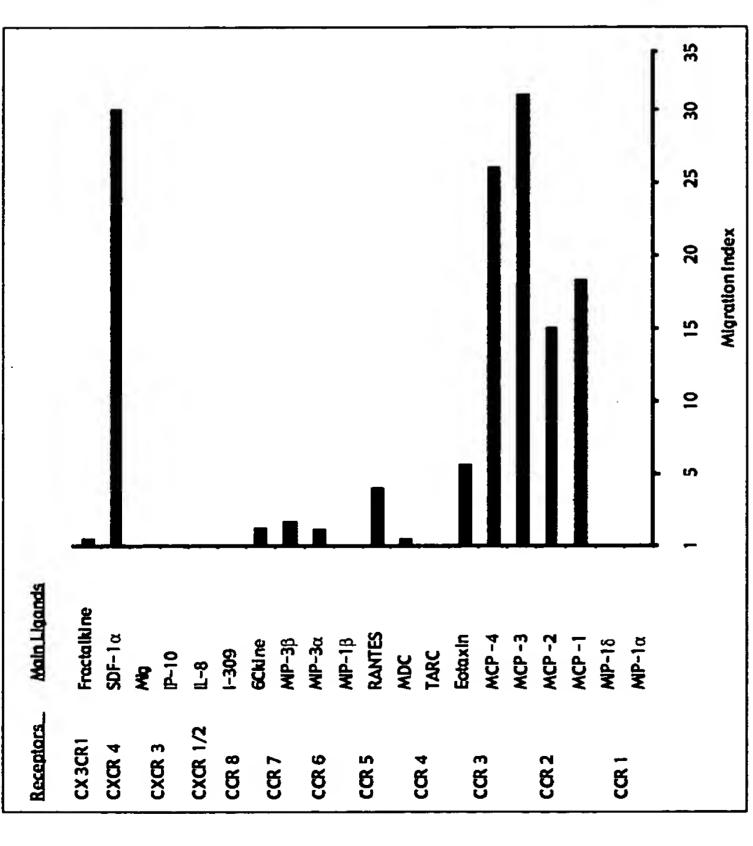
in the draining lymph node 20 hours after hMCP-4 s.c. Right panel statistical difference between hMCP-4 11b+ cells 2 h following hMCP-4 injection t's t test) (B) Increase of dendritic cells injection: absolute numbers. (A) Local recruitment of CD and controls p< 0.01 (Studen



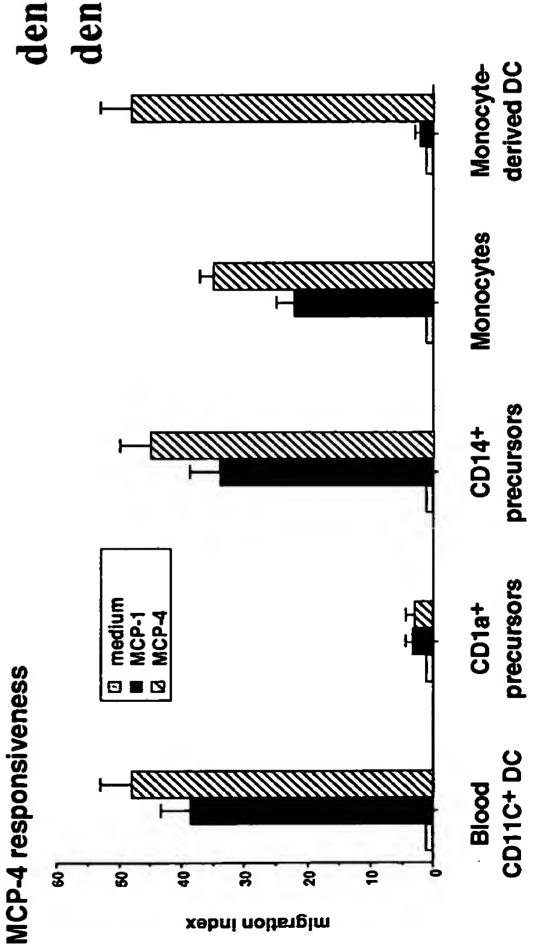
potent chemokine active on human

Human MCP-4 is one of the most

dendritic cells isolated from blood



dendritic cells and monocyte-derived Human MCP-4 is active on blood dendritic cells, unlike hMCP-1

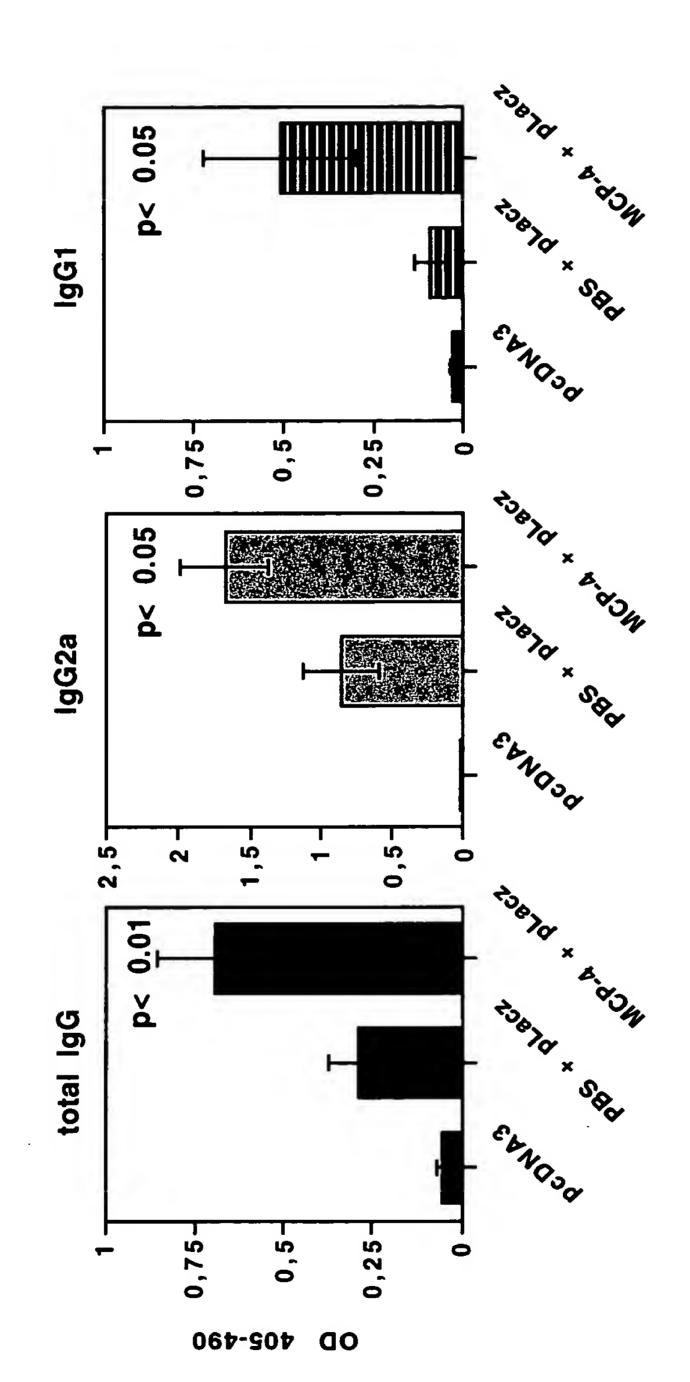


xebni nottengim

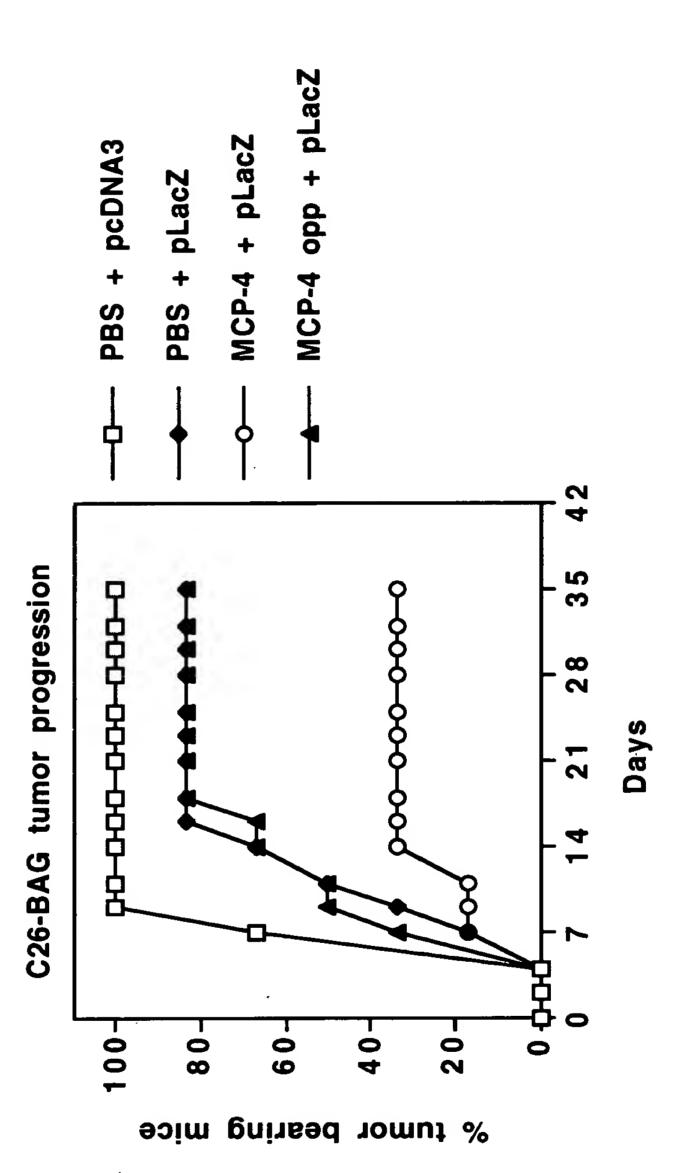
Figure 5

galactosidase DNA immunization (50 micrograms DNA injection 3 hours after 100 ng MCP-4 injection increases the antigen-specific humoral response following betahMCP-4 injection in rear right footpad)

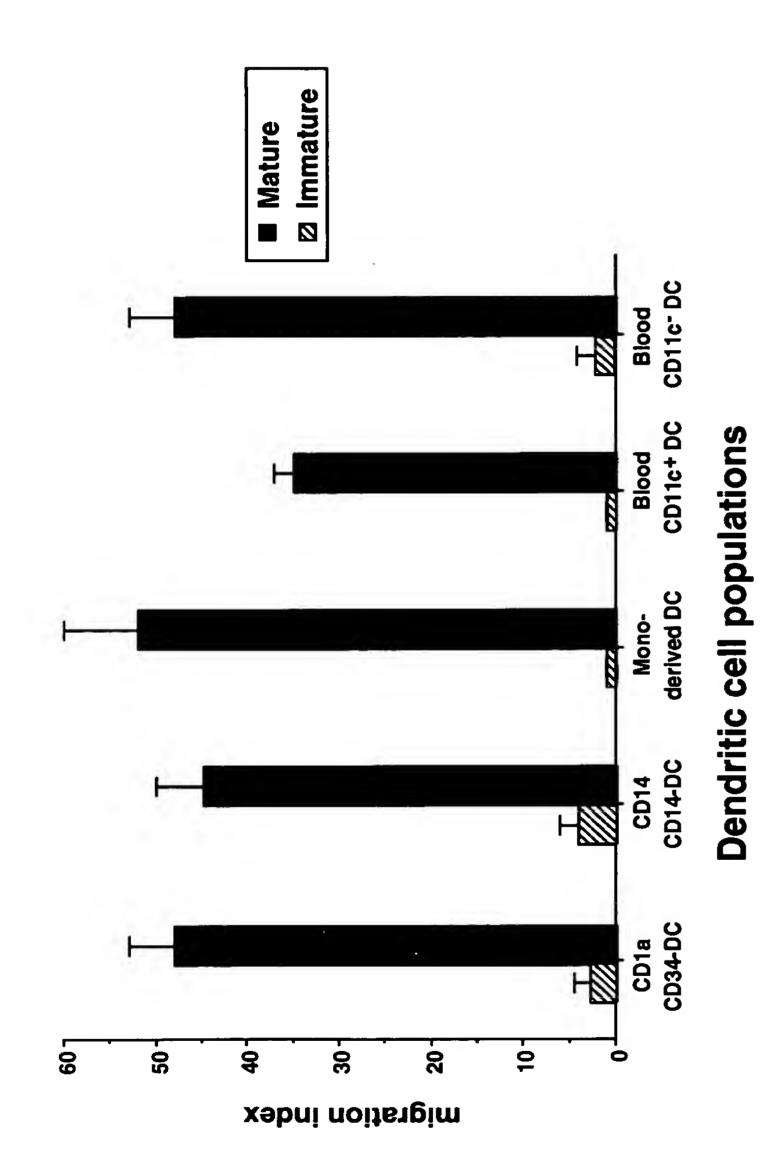
Figure shows anti-betagalactosidase antibodies measured after 4 immunizations + pLacz compared with PBS + pLacz : Student's t test significance hMCP-4



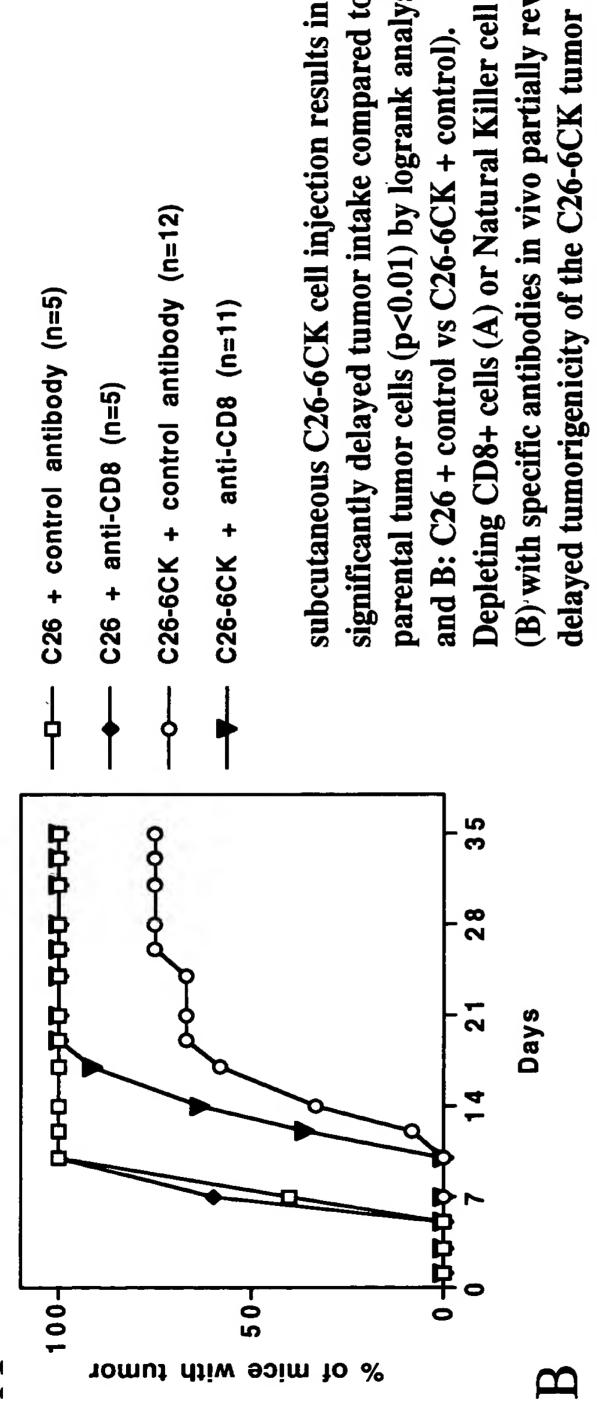
expresses beta-galactosidase significance hMCP-4 + pLacz compared with PBS + pLacz : p<0.05 logrank MCP-4 opp: hMCP-4 after 100 ng hMCP-4 injection in rear right footpad, four immunizations nunization (50 micrograms DNA injection 3 hours prior to tumor challenge) when mice are challenged with a C26 colon MCP-4 injection increases the anti-tumor effect induced by betainjected at distant site galactosidase DNA imn carcinoma cell line that

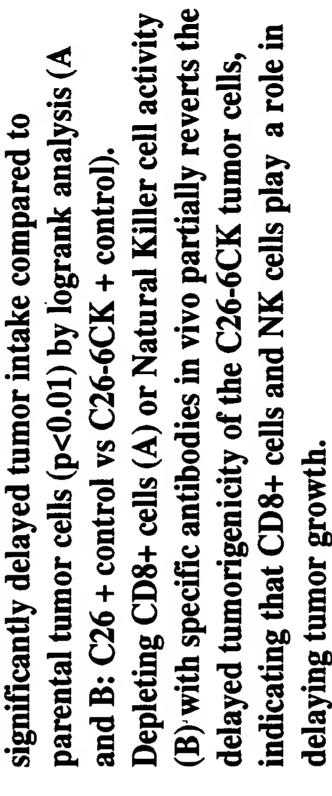


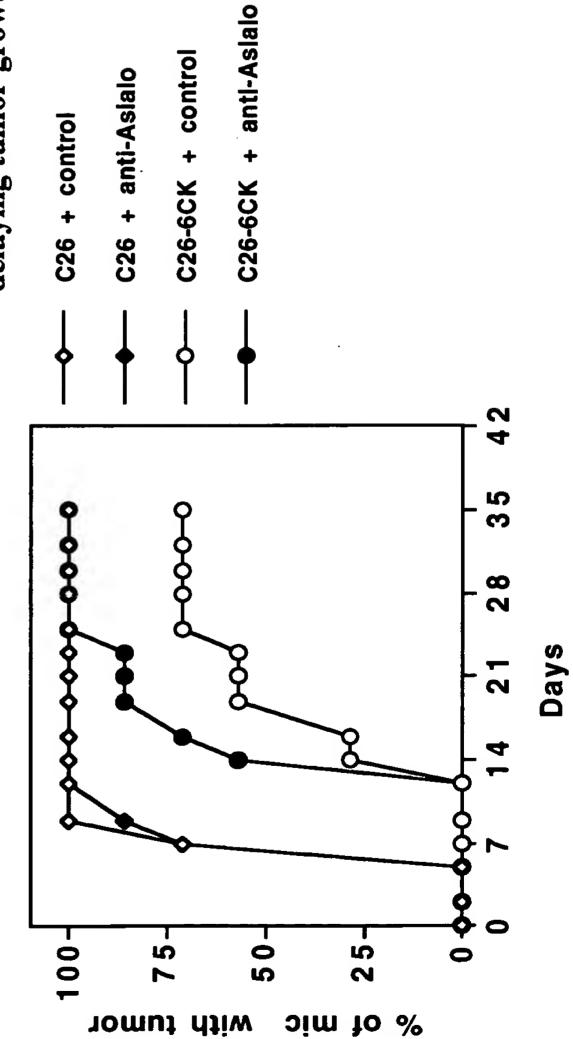
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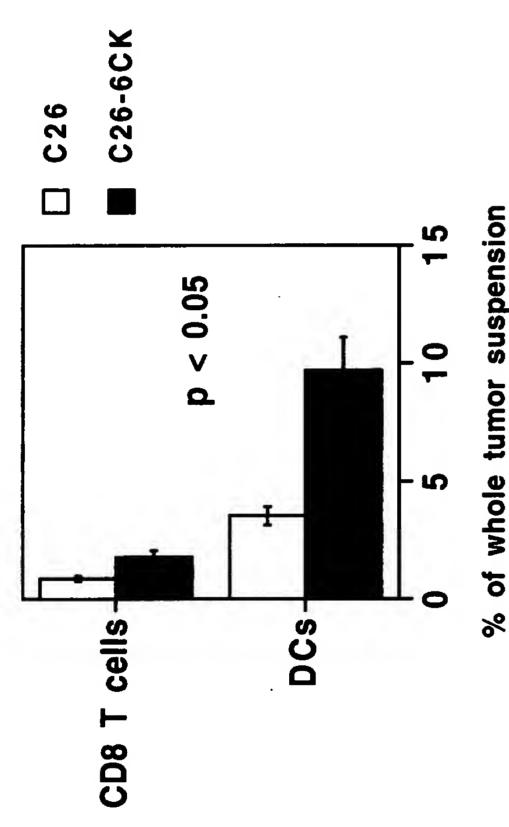


Human 6Ckine is a chemotactic factor for all subsets of human dendritic cells, derived in vitro or isolated ex vivo.



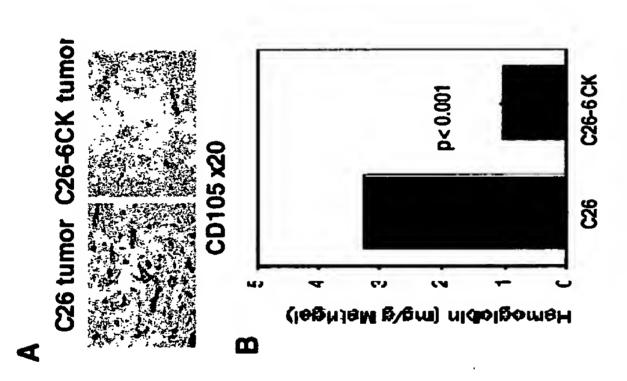






of whole tumor suspension

analyzed for CD8 T cells and CD11c+MHC classII+ dendritic cell (DC) infiltration Data show a significant recruitment of both leukocyte subsets in C26-6CK tumors C26 wild-type tumors or C26-6CK tumors expressing m6Ckine have been by flow cytometry analysis of whole tumor suspension (n=7). compared to C26 tumors (Student's t test).



Data show a significant decrease of angiogenesis induced by m6Ckine gene transfer into analyzed for the development of blood vasculature (CD105 staining, A) or angiogenic or C26-6CK tumors expressing m6Ckine have been assay (B). potential in a Matrigel C26 wild-type tumors

the C26 tumor.

